

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Carol Wright et al.
Serial No. :
Filed :
Title : STENT WITH THERAPEUTICALLY ACTIVE DOSAGE OF
RAPAMYCIN COATED THEREON
Art Unit :
Examiner :

Honorable Commissioner of Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

Please amend the above-captioned application as follows:

In the Title:

Please change the title of the present application to:

-- STENT WITH THERAPEUTICALLY ACTIVE DOSAGE OF RAPAMYCIN
COATED THEREON--.

In the Specification:

Page 1, between the title and line 9, insert the following:

-- Cross Reference to Related Applications

This application is a continuation application of U.S. Serial No. 09/061,568, filed April 16, 1998. --

On page 8, line 14, please change "1A" to -- 1a --.

On page 8, line 33, please change "10" to -- 40 --.

Please find an Information Disclosure Statement filed with respect to the current application.

Formal Drawings:

Please find a new set of Formal Drawings enclosed herewith.

In the Claims:

Please cancel Claims 1-3 and add the following new set of claims:

4. (New) A stent having a coating containing rapamycin, said coating formed from a polymer mixed carrier containing the rapamycin; and said coating applied to said stent.
5. (New) The stent of claim 4 wherein said rapamycin is contained in the coating at a weight percentage of 0.0001% to 30%.
6. (New) The stent of claim 4 wherein the polymer is biocompatible and degradable.
7. (New) The stent of claim 6 wherein the polymer is chosen from: lactone-based polyesters, lactone-based copolyesters; polyanhydrides; poly-aminoacids; polysaccharides; polyphosphazenes; poly(ether-ester) copolymers, and blends of such polymers.
8. (New) The stent of claim 4 wherein the polymer is nonabsorbable.
9. (New) The stent of claim 8 wherein the polymer is chosen from: polydimethylsiloxane; poly(ethylene)vinylacetate; poly(hydroxy)ethyl-methylmethacrylate, polyvinyl pyrrolidone; polytetrafluoroethylene; and cellulose esters.
10. (New) The stent of claim 4 wherein the stent is dip-coated.
11. (New) The stent of claim 4 wherein the stent is sprayed with said coating.
12. (New) The stent of claim 4 further comprising:
 - a generally thin walled cylinder, said cylinder containing a plurality of generally solid struts, said applied to said strut, and a channel formed in at least one of said struts, said channel having a closed perimeter on all sides and an open top, and said channel smaller in all dimensions than said strut, said channel containing a reservoir of said rapamycin coating applied therein.
13. (New) The stent of claim 4 wherein the coating is applied to the inside and the outside of the stent.
14. (New) A method for applying a stent in the body comprising:
 - mixing rapamycin to a polymer based coating;
 - said polymer based coating containing rapamycin in the amount of a weight ration of 0.0001% to about 30%;
 - applying said coating to said stent; and
 - expanding said stent within the body.

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REMARKS/ARGUMENTS

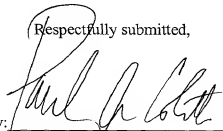
Claims 1-3 have been canceled. New claims 4-14 have been added to this application.

Applicants herewith request allowance of the above-captioned application. It is believed that the claims proffered with this Preliminary Amendment place the application in condition for allowance.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page(s) is/are captioned "Version with markings to show changes made".

Respectfully submitted,

By:



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Dated: June 4 2001

VERSION WITH MARKINGS TO SHOW CHANGES MADE

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Please change the title of the present application to:

-- STENT WITH THERAPEUTICALLY ACTIVE DOSAGE OF RAPAMYCIN
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On page 8, line 14, please change "1A" to -- 1a -- as follows:

The invention will be better understood in connection with the following figures in which Figures 1 and 1[A] a are top view and section views of a stent containing reservoirs as described in the present invention;

On page 8, line 33, please change "10" to -- 40 -- as follows:

Conversely, stents have proven useful in preventing reducing the proliferation of restenosis. Stents, such as the stent [10] 40 seen in layout in Figure 4, balloon-

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-- 4. (New) A stent having a coating containing rapamycin, said coating formed from a polymer mixed carrier containing the rapamycin; and said coating applied to said stent.

5. (New) The stent of claim 4 wherein said rapamycin is contained in the coating at a weight percentage of 0.0001% to 30%.

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6. (New) The stent of claim 4 wherein the polymer is biocompatible and degradable.
7. (New) The stent of claim 6 wherein the polymer is chosen from: lactone-based polyesters, lactone-based copolyesters, polyanhydrides; polyaminoacids; polysaccharides; polyphosphazenes; poly(ether-ester) copolymers; and blends of such polymers.
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14. (New) A method for applying a stent in the body comprising:
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 - said polymer based coating containing rapamycin in the amount of a weight ration of 0.0001% to about 30%;
 - applying said coating to said stent; and
 - expanding said stent within the body. --

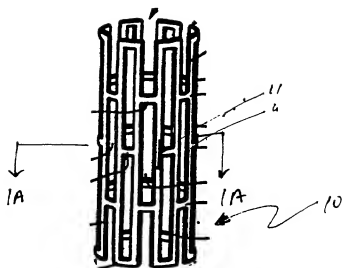


FIG. 1

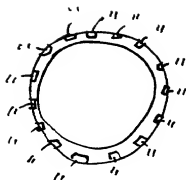


FIG 1A

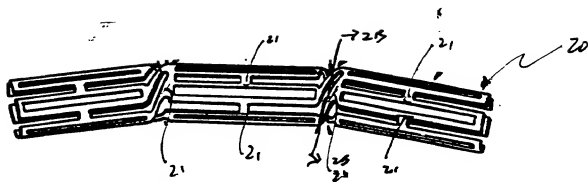


FIG 2A

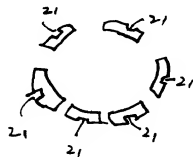


FIG 2B

